

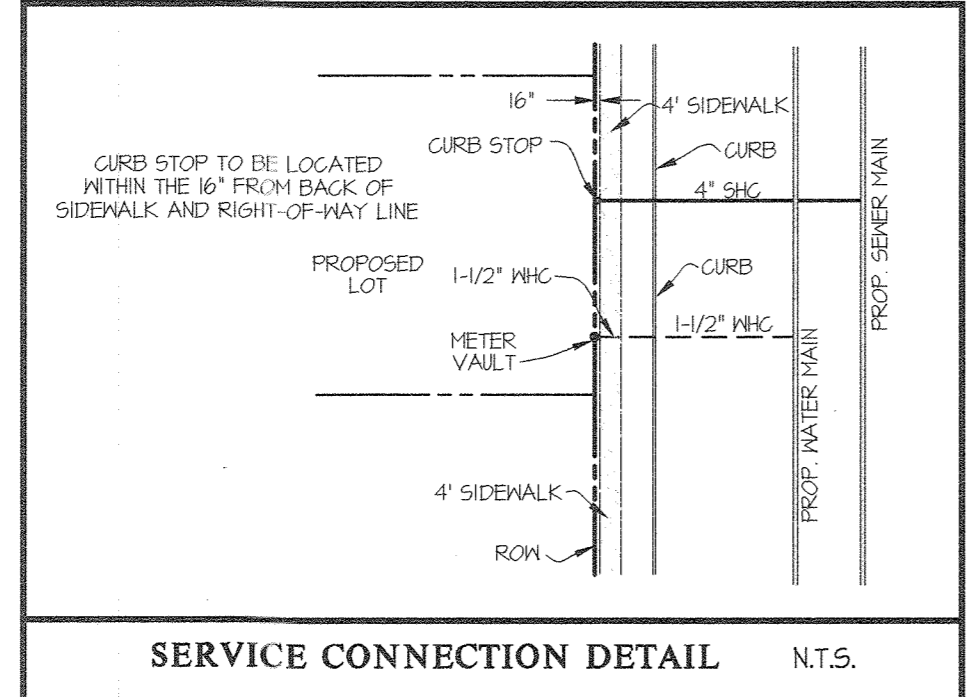
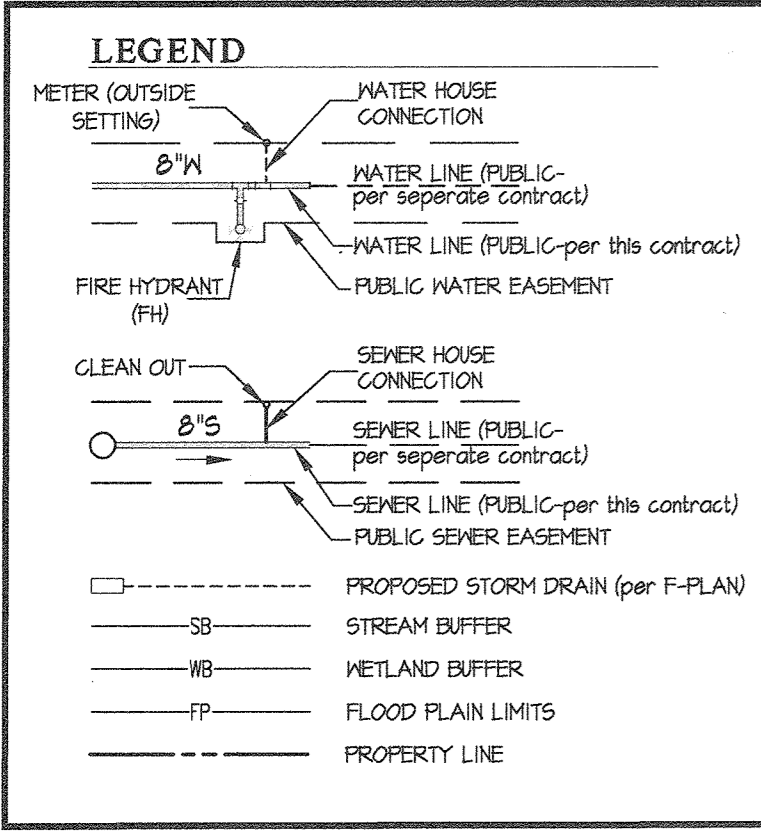
QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" WATER MAIN	3401 L.F.	3401 L.F.	CL. 54 D.I.P.	U.S. PIPE / *
6" WATER MAIN	108 L.F.	108 L.F.	CL. 54 D.I.P.	U.S. PIPE / *
1-1/2" MHC	589 L.F.	589 L.F.	Copper	Cambridge Lee / *
1-1/2" METER VAULT	19 EA.	19	Concrete	Horne / *
8"x8" TEE	2 EA.	2	DIP	Star Pipe / *
8"x6" FHT	10 EA.	10	DIP	Star Pipe / *
FIRE HYDRANT	10 EA.	10	DIP	Star Pipe / *
8" 1/8" HB	2 EA.	2	DIP	Star Pipe / *
8" 1/16" HB	6 EA.	6	DIP	Star Pipe / *
8" 1/32" HB	3 EA.	3	DIP	Star Pipe / *
8" VALVE	6 EA.	6	DIP	Star Pipe / *
8" SEWER MAIN (PVC)	1376 L.F.	1376	SDR-35 PVC	National Pipe / *
8" SEWER MAIN (DIP)	128 L.F.	128	CL. 52 D.I.P.	U.S. PIPE / *
4" MANHOLES	11 EA.	11	Concrete	Contractor's Pre-cast
4" SHC	549 EA.	549	DIP / PVC	U.S. Pipe / Nat'l. Pipe / LB
4" CLEANOUT	19 EA.	19	Concrete	Horne
RIVER-CROSSING	1 EA.	1		

*Supplier / LB Water

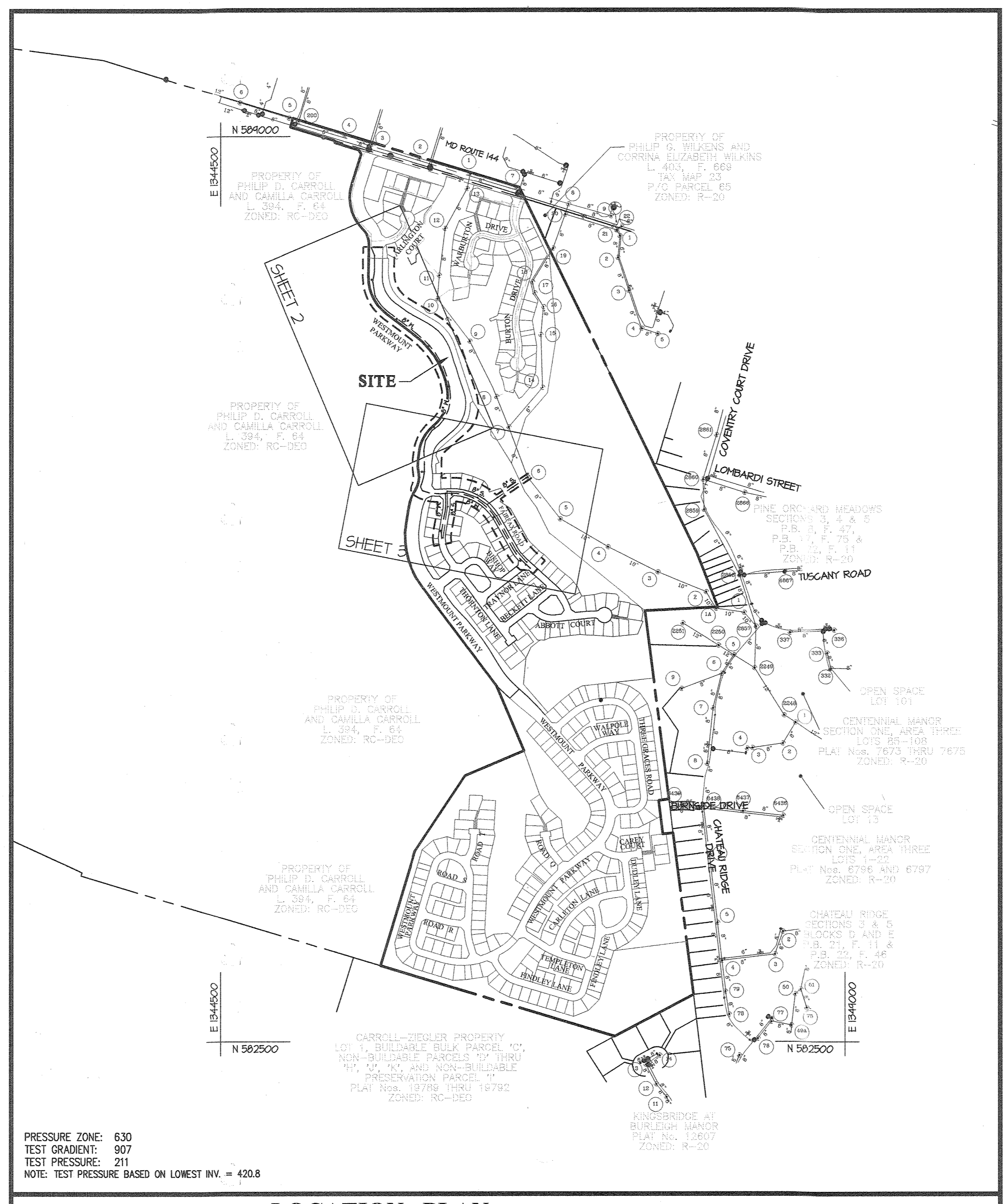
Water

NAME OF UTILITY CONTRACTOR: _____

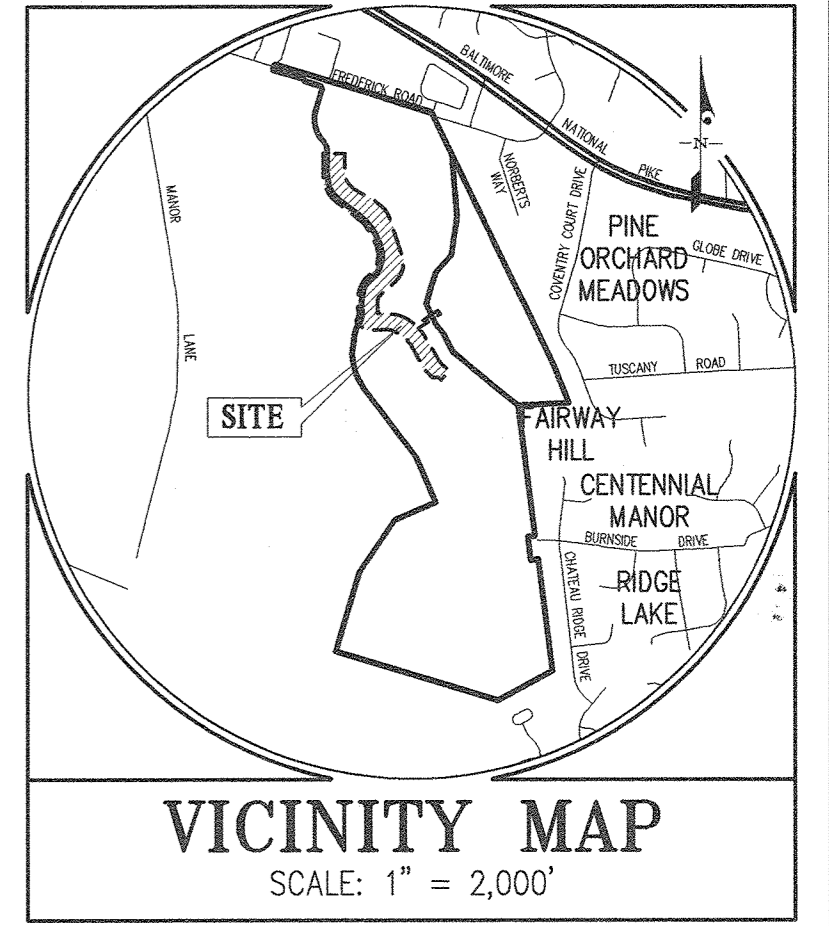
SURVEY AND DRAFTING DIV. CHECKBOX: _____ AS-BUILT DATE: _____



- SHEET INDEX**
- COVER SHEET
 - WATER AND SEWER PLAN (1"=50')
 - WATER AND SEWER PLAN (1"=50')
 - WATER AND SEWER PROFILE
 - WATER AND SEWER PROFILE



TYPE OF BUILDING	RESIDENTIAL
NUMBER OF UNITS	19
NUMBER OF S.H.C.'s	19
NUMBER OF W.H.C.'s	19 SINGLE
AREA OF COMMERCIAL LOT/PARCEL	0.0 AC.
SEWER WATERSHED	MIDDLE PATUXENT
PUMPING STATION	N/A



BENCHMARKS

16HC: NORTHING: 584780.408	16HD: NORTHING: 590674.171
EASTING: 1341530.147	EASTING: 1340043.536

ADC MAP COORDINATES: MAP 4914 GRID J5 THRU J8 GRID K5 THRU K8

GENERAL NOTES

- Part I**
- Approximate locations of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the contractor's expense.
 - Topographic field surveys were performed on March, 1947 by SDI and then updated by grade checks performed by Gutschick, Little & Weber, PA and based on F 13-008. The boundary information is based upon a field survey prepared by Gutschick, Little & Weber, PA on or about June, 2001.
 - Horizontal and Vertical Survey Controls. The coordinates shown on the drawings are based on Maryland State Reference System NAD 83/11 as projected by Howard County Geodetic Control Stations No. 4688 and No. 416A. All vertical controls are based on NAVD 83. Vertical controls provided on the drawings are standard discs on concrete monuments.
 - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
 - Clear all utilities by a minimum of 12 inches. Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. The owner has contacted the utility companies and has made arrangements for tracking of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for the bracing of additional poles or damages shall be deducted from monies owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
 - For details not shown on the drawing, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.
 - Where test pits have been made on existing utilities, they are noted by the symbol (M) at the locations of the test pits. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
 - The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:
 - AT&T 1-800-252-1133
 - BGE (Construction Services) 410-631-6715
 - BGE (Emergency) 410-625-0123
 - Bureau of Utilities 410-313-4900
 - Colonial Pipeline Co. 410-745-1940
 - Miss Utility 1-800-251-7771
 - State Highway Administration 410-331-5533
 - Verizon 1-800-743-0333
 - Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
 - The contractor shall remove trees, stumps and roots along the line of excavation. Payment for such removal shall be included in the unit price bid for construction of the man.
 - The contractor shall notify the Bureau of Highways, Howard County, at (410)-313-1450 at least five working days before open cutting or boring/jacking of any County road for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPM requirements per Section 18.14(a) of the Howard County Code.
- Part II WATER**
- All water mains shall be D.I.P. Class 54 unless otherwise noted.
 - Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.
 - Valves adjacent to tees shall be strapped to tees.
 - All fittings shall be bolted or anchored with concrete in accordance with Standard Details unless otherwise provided for on the drawings.
 - Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and Section 1005 of the Standard Specifications.
 - The contractor shall not operate any water main valves on the existing water system.
 - Tracer wires and continuity test stations shall be installed on all DIP and PVC water mains in accordance with the Howard County Design Manual.
 - For PVC water mains, all records for the Quality Control and Qualification Test Requirements noted in Section 51 of the ANWA Standard C400 for PVC pressure pipe shall be submitted with the pipe material certifications or shop drawings prior to approval of the material for use. The test records shall be for the pipe to be installed under this contract. All PVC pipe shall contain markings to allow cross referencing of the pipe supplied to the test records received.
 - Unless otherwise noted on the plans or in the specifications sacrificial anodes shall be installed on all valves and metallic fittings used with PVC water mains in accordance with Volume IV, Standard Specifications and Details for Construction. Seventeen (17) pound Magnesium anodes shall be installed on all valves and ductile iron fittings including restrainers and hammers. Twelve (12) pound Zinc anodes shall be installed on all stainless steel fittings and saddles used with PVC mains. All "tees" used with PVC mains shall be ductile iron.
 - Proper assembly of gasketed PVC Pipe Joints. The manufacturer's insertion line of gasketed PVC pipe joints indicates the maximum depth of insertion of the spigot into the bell. After assembly of the joint, the insertion line shall remain visible. Dual insertion lines on gasketed PVC pipe indicate the maximum and minimum depth of insertion of the spigot into the bell. The contractor shall not over insert or over home the spigot into the bell of PVC pipe.
 - All changes in horizontal or vertical direction of PVC water pipe shall be made with standard bends, 5-degree sweeps or high deflection (HD) couplings. No bending of the pipe or deflecting of PVC pipe joints is permitted. Where high deflection couplings or 5-degree sweeps are permitted the contractor shall provide one full pipe length (20-foot long) on either side of the high deflection coupling or 5-degree sweep. The contractor shall use a vibratory plate compactor or other approved means to thoroughly compact the 15T stone on both sides of the high deflection coupling or 5-degree sweep, taking care not to use compaction equipment directly over the fitting. PVC high deflection couplings shall be limited to a total deflection of 3-degrees (1 1/2-degree on either end of the coupling), shall be rated for a minimum 2000 psi meeting the requirements of ANWA C400, shall have a minimum lag length of 4-inches and shall have center stops. PVC high deflection couplings shall be Certaintec PVC High Deflection (HD) Stop Couplings or equal. Five degree sweeps shall be bell by spigot, rated for a minimum 225 psi, DR18 meeting the requirements of ANWA C400 and shall be Multi Fittings (pex) Blue Brute DR18 or equal.
 - When PVC high deflection couplings or PVC 5-degree sweeps are used to facilitate changes in horizontal or vertical alignments of ANWA C-400 PVC pipelines, the contractor shall install devices for the prevention of over-insertion of the PVC pipe spigots or plain ends into the push on bell joint on both sides of the high deflection couplings and 5 degree sweeps. Bell stops shall be placed at the proper insertion line for the fitting. The bell stop shall be manufactured of ductile iron and incorporate an expansion retention spring to allow for pipe expansion and contraction. The bell stops shall be Series 5000 Mega-Stop, as manufactured by EBAA Iron, Inc. or approved equal.
- Part III SEWER**
- All sewer mains shall be D.I.P. or P.V.C. unless otherwise noted.
 - All manholes shall be 4'-0" inside diameter unless otherwise noted.
 - Force mains shall be D.I.P. only.
 - Manholes shown with 12" and 16" walls are for brick manholes only.
 - Manholes designated N.T. in plan and profile shall have watertight frame and cover, Standard Detail 6552. Where watertight manhole frames and covers are used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
 - House(s) with the symbol "C.N.S." indicates that the cellar cannot be served.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH F-16-046, SECTION 219 OF THE SPECIFICATIONS AT FINAL ROAD PLAN STAGE.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

APPROVED: *John R. Roberts* 6/23/19
HOWARD S.C.D. Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Chris Shuff 6-20-19
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Al Chalk 8-15-19
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW
PLANNING | ENGINEERING | SURVEYING

3809 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-889-2524 | FAX: 301-421-4186

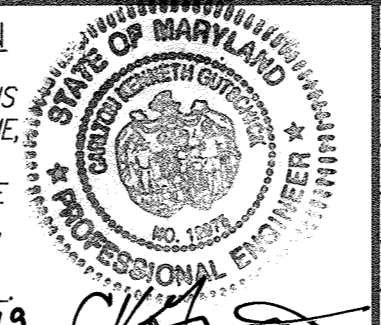
DESIGNED BY: JRC
DATE: JUNE, 2019
DRAWN BY: JRC
CHECKED BY: G.L.W. No. 13013
DEV

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 12975
EXP. DATE: MAY 26, 2020

6/11/19 *Chris Shuff*



BY	NO	REVISION	DATE

COVER SHEET

600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

WESTMOUNT
CONTRACT No. 24-5097-D
PHASE 1A

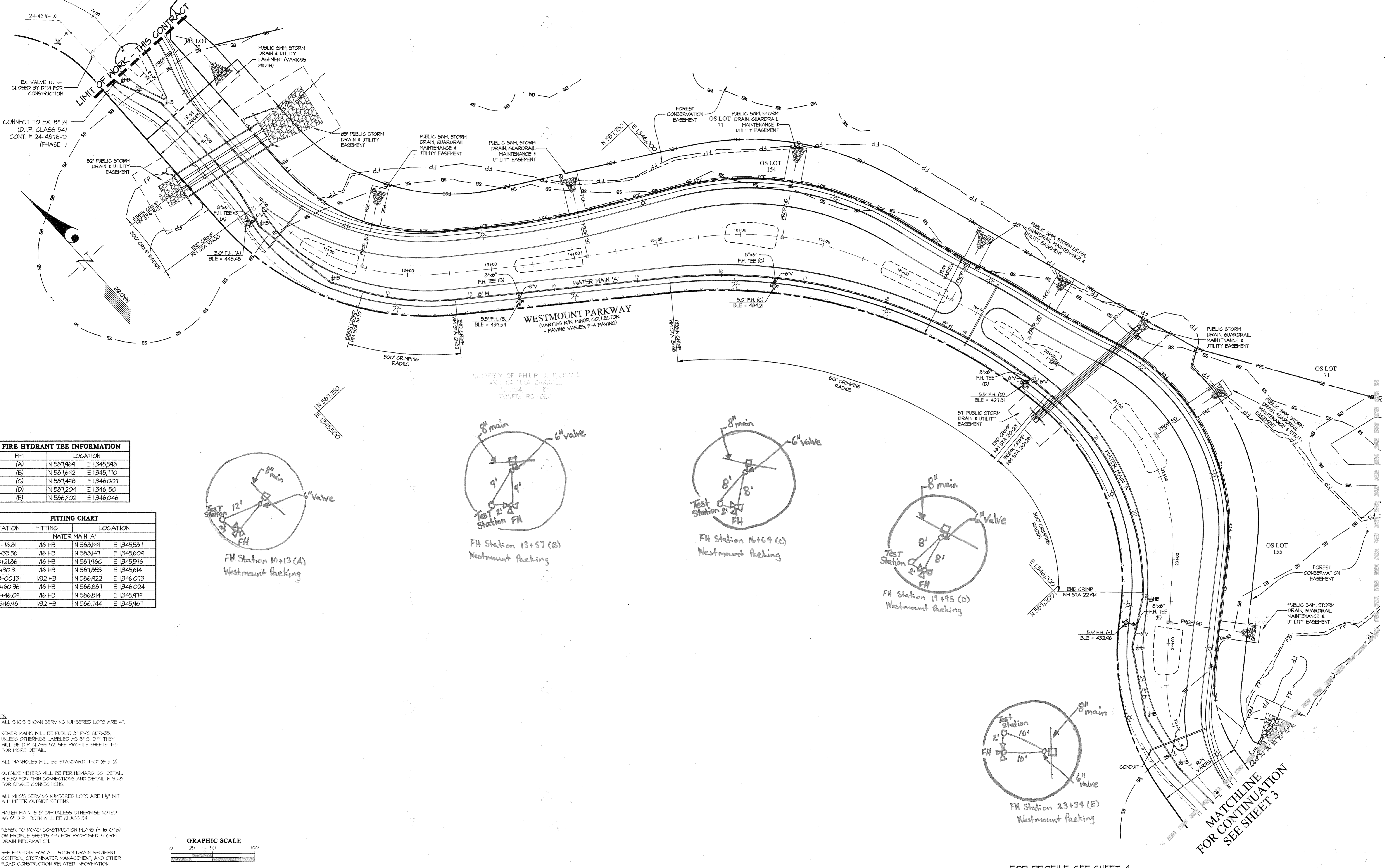
LOTS 81 THRU 89, LOTS 125 THRU 137, LOTS 144 & 145
AND OPEN SPACE LOTS 156 THRU 158

HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2

SCALE
AS SHOWN

SHEET
1 OF 5

PREPARED FOR:
WESTMOUNT DEVELOPMENT CORPORATION
100 WEST PENNSYLVANIA AVENUE
SUITE 301
TOWSON, MARYLAND 21284
443-361-0422
ATTN: CAMILLA CARROLL

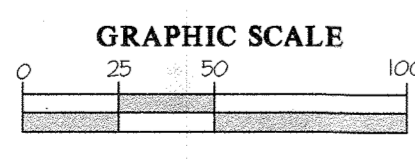
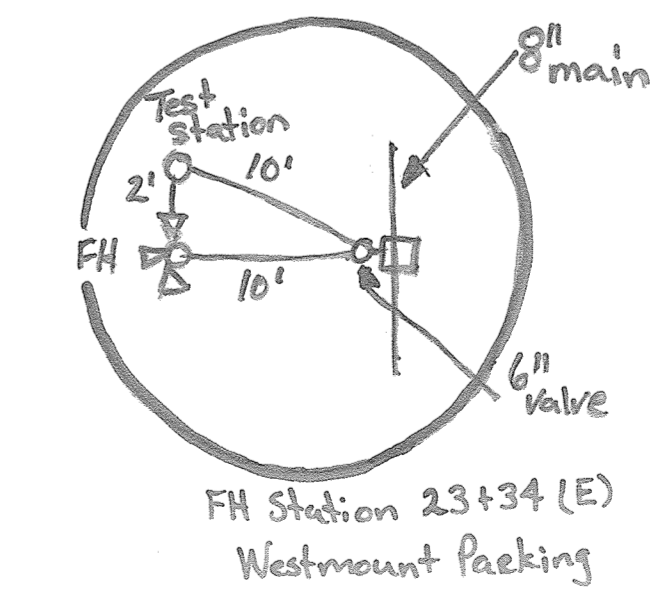
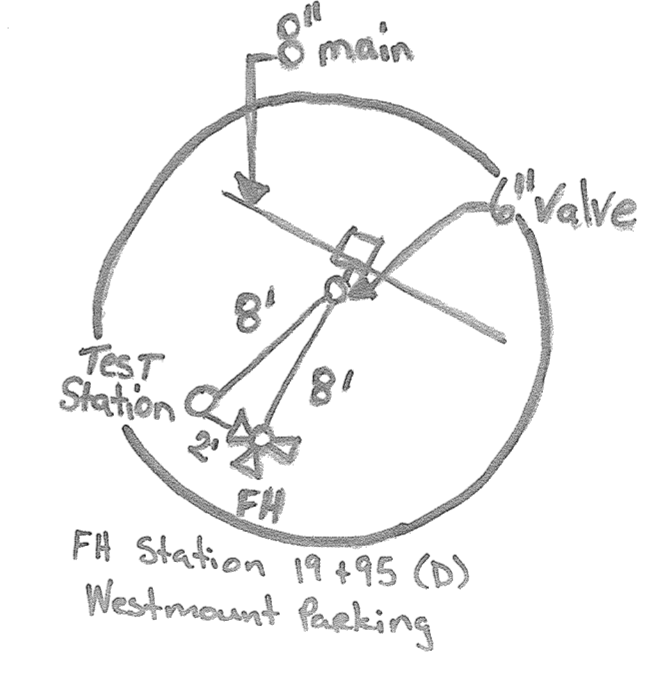
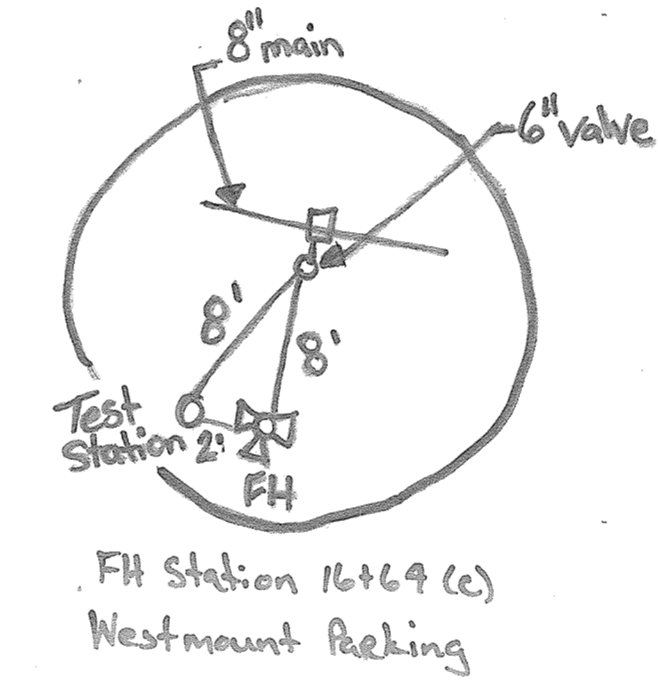
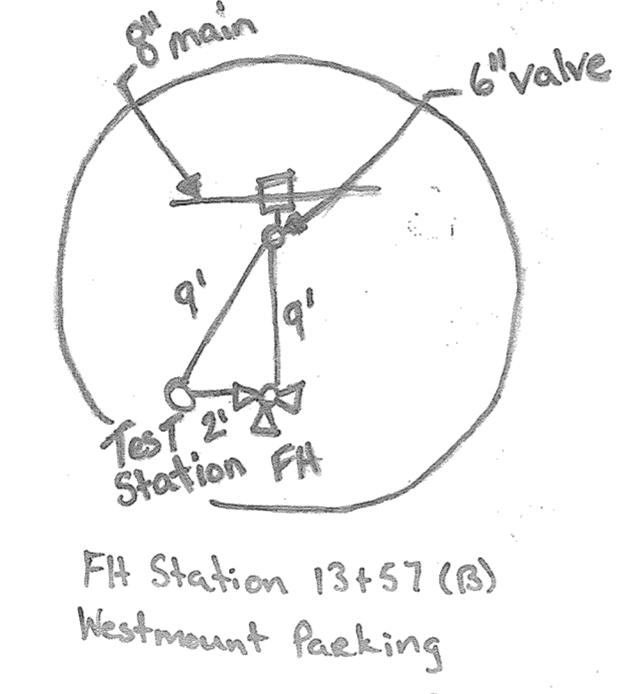
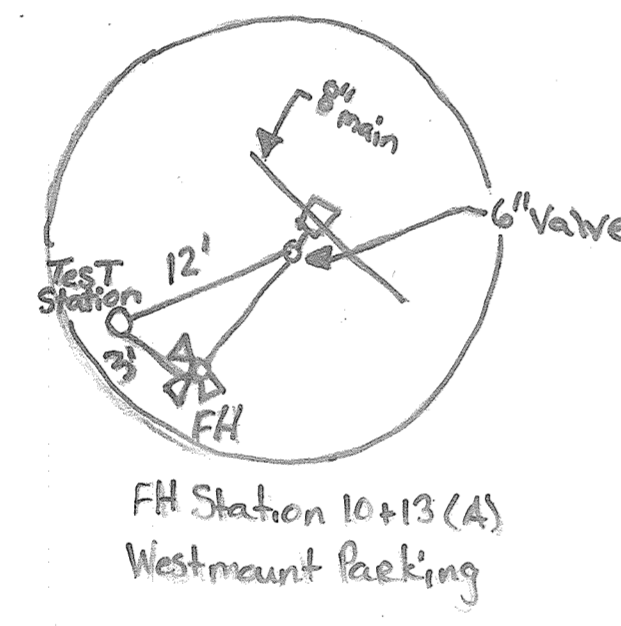


FIRE HYDRANT TEE INFORMATION

FHT	LOCATION
(A)	N 507,964 E 1345,598
(B)	N 507,642 E 1345,710
(C)	N 507,448 E 1346,007
(D)	N 507,204 E 1346,150
(E)	N 506,902 E 1346,046

FITTING CHART

STATION	FITTING	LOCATION
7+76.01	1/16 HB	N 508,199 E 1345,581
8+33.56	1/16 HB	N 508,147 E 1345,609
10+21.86	1/16 HB	N 507,960 E 1345,596
11+30.31	1/16 HB	N 507,853 E 1345,614
23+00.13	1/32 HB	N 506,922 E 1346,073
23+60.36	1/16 HB	N 506,887 E 1346,024
24+46.04	1/16 HB	N 506,814 E 1345,979
25+16.98	1/32 HB	N 506,744 E 1345,967



- NOTES**
- ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4".
 - SEWER MAINS WILL BE PUBLIC 2" PVC SDR-35, UNLESS OTHERWISE LABELED AS 8" S. DIP, THEY WILL BE DIP CLASS 52. SEE PROFILE SHEETS 4-5 FOR MORE DETAIL.
 - ALL MANHOLES WILL BE STANDARD 4'-0" (6 5/2).
 - OUTSIDE METERS WILL BE PER HOWARD CO. DETAIL W 332 FOR TWIN CONNECTIONS AND DETAIL W 328 FOR SINGLE CONNECTIONS.
 - ALL PWS'S SERVING NUMBERED LOTS ARE 1 1/2" WITH A 1" METER OUTSIDE SETTING.
 - WATER MAIN IS 8" DIP UNLESS OTHERWISE NOTED AS 6" DIP. BOTH WILL BE CLASS 54.
 - REFER TO ROAD CONSTRUCTION PLANS (P-16-046) OR PROFILE SHEETS 4-5 FOR PROPOSED STORM DRAIN INFORMATION.
 - SEE P-16-046 FOR ALL STORM DRAIN SEDIMENT CONTROL, STORMWATER MANAGEMENT, AND OTHER ROAD CONSTRUCTION RELATED INFORMATION.

MATCHLINE FOR CONTINUATION SEE SHEET 3

FOR PROFILE, SEE SHEET 4

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
6-20-19

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
6-20-19

GLW
PLANNING | ENGINEERING | SURVEYING
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20886 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | OCRVA: 301-989-2624 | FAX: 301-421-4188

DESIGNED BY: DEV
DRAWN BY: JRC
CHECKED BY: DEV
DATE: 13013

DATE: JUNE, 2019
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 12975
EXP. DATE: MAY 26, 2020



BY	NO	REVISION	DATE

WATER and SEWER PLAN
600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

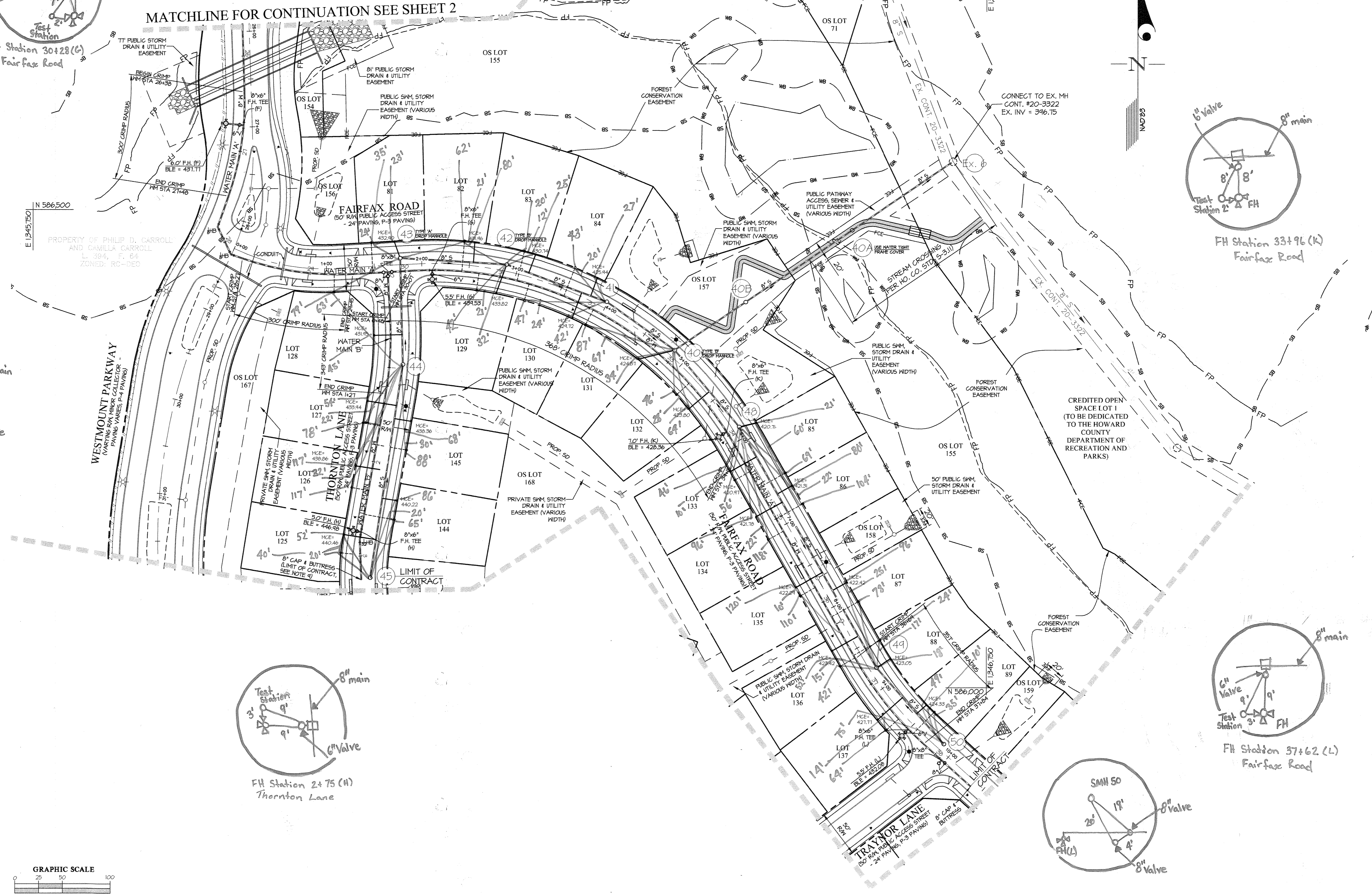
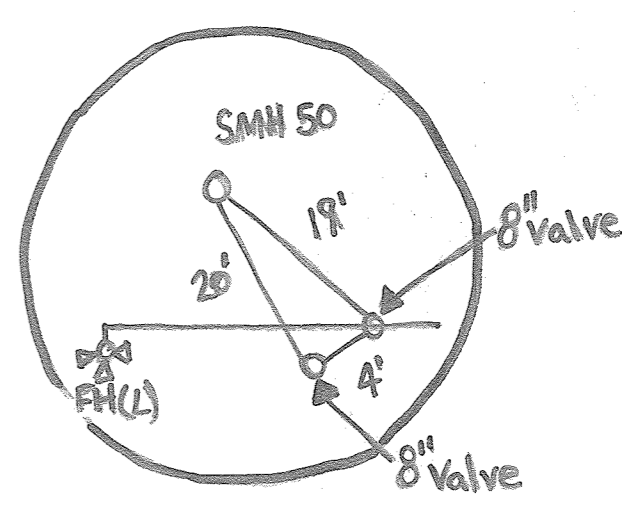
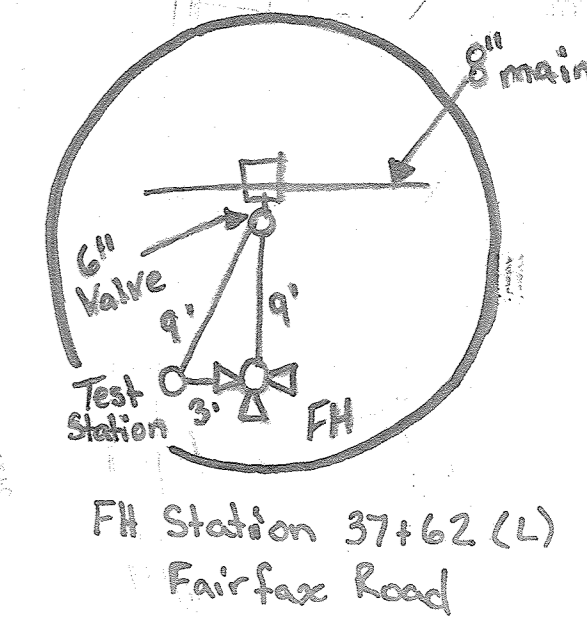
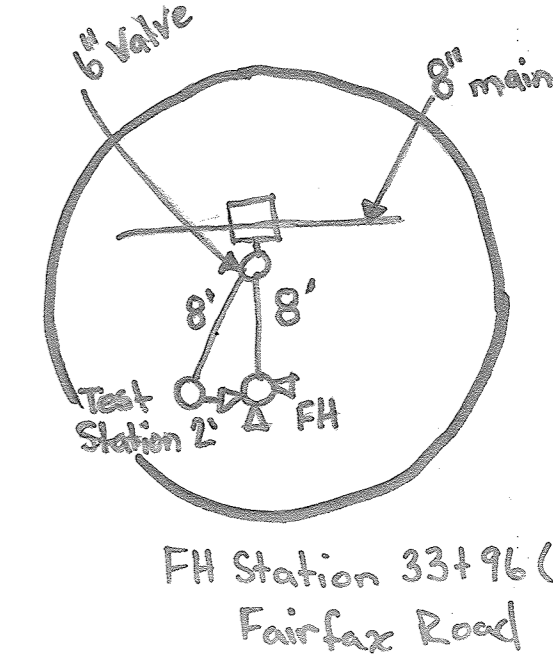
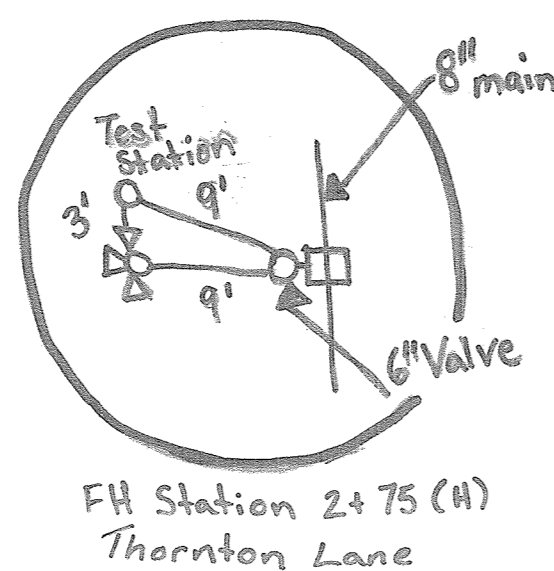
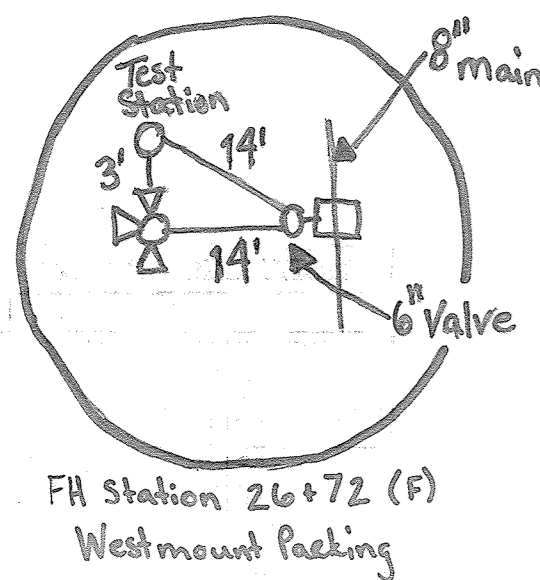
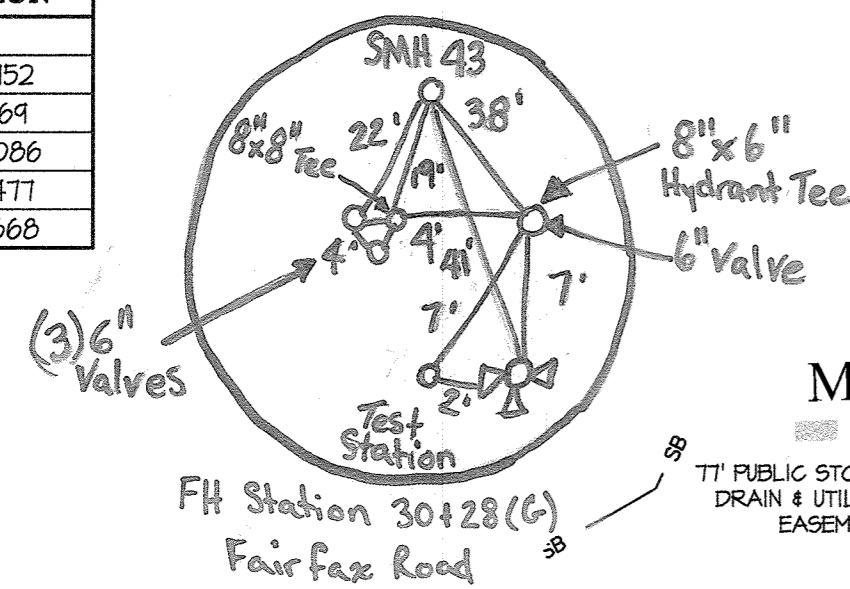
WESTMOUNT
CONTRACT No. 24-5097-D
PHASE 1A
LOTS 81 THRU 89, LOTS 125 THRU 137, LOTS 144 & 145
AND OPEN SPACE LOTS 156 THRU 158
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2

SCALE AS SHOWN
SHEET 2 OF 5

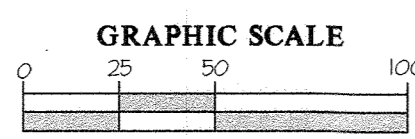
FIRE HYDRANT TEE INFORMATION		
FHT	LOCATION	
(F)	N 506,591	E 1345,952
(G)	N 506,437	E 1346,169
(H)	N 506,165	E 1346,086
(K)	N 506,268	E 1346,417
(L)	N 505,956	E 1346,668

SEWER MANHOLE INFORMATION		
MH	LOCATION	
40	N 506,353	E 1346,423
40A	N 506,479	E 1346,609
40B	N 506,403	E 1346,447
41	N 506,404	E 1346,352
42	N 506,443	E 1346,247
43	N 506,450	E 1346,135
44	N 506,338	E 1346,138
45	N 506,115	E 1346,104
48	N 506,273	E 1346,508
49	N 506,021	E 1346,441
50	N 505,941	E 1346,706

FITTING CHART			
STATION	FITTING	LOCATION	
WATER MAIN 'A'			
27+82.47	1/8" HB	N 506,482	E 1345,944
28+14.48	1/8" HB	N 506,454	E 1345,951
29+01.45	8"x8" TEE	N 506,435	E 1346,122
30+04.15	8"x8" TEE	N 505,924	E 1346,703
30+50.00	8" CAP & BUTTRESS	N 505,941	E 1346,734
WATER MAIN 'B'			
0+00.00	8"x8" TEE	N 506,435	E 1346,122
2+82.63	1/2" HB	N 506,155	E 1346,043
3+23.00	8" CAP & BUTTRESS	N 506,113	E 1346,044



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FOR PROFILES, SEE SHEETS 4 & 5

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
6-20-19

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
8-15-19

GLW
PLANNING | ENGINEERING | SURVEYING
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20886 | GLWPA.COM
PHONE: 301-421-4024 | BAL: 410-880-1820 | OCAVA: 301-989-2524 | FAX: 301-421-4188

DESIGNED BY: DEV
DRAWN BY: JRC
CHECKED BY: DEV
DATE: JUNE, 2019
G.L.W. No. 13013

PROFESSIONAL CERTIFICATION
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LICENSE NO. 12975
EXP. DATE: MAY 26, 2020

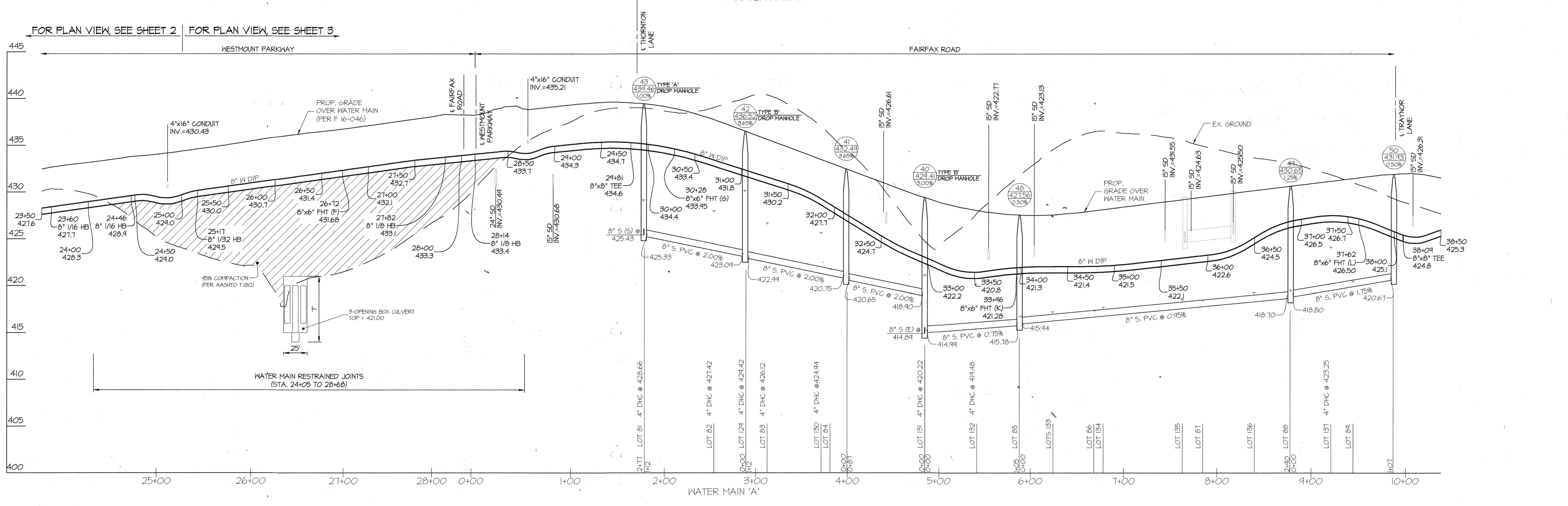
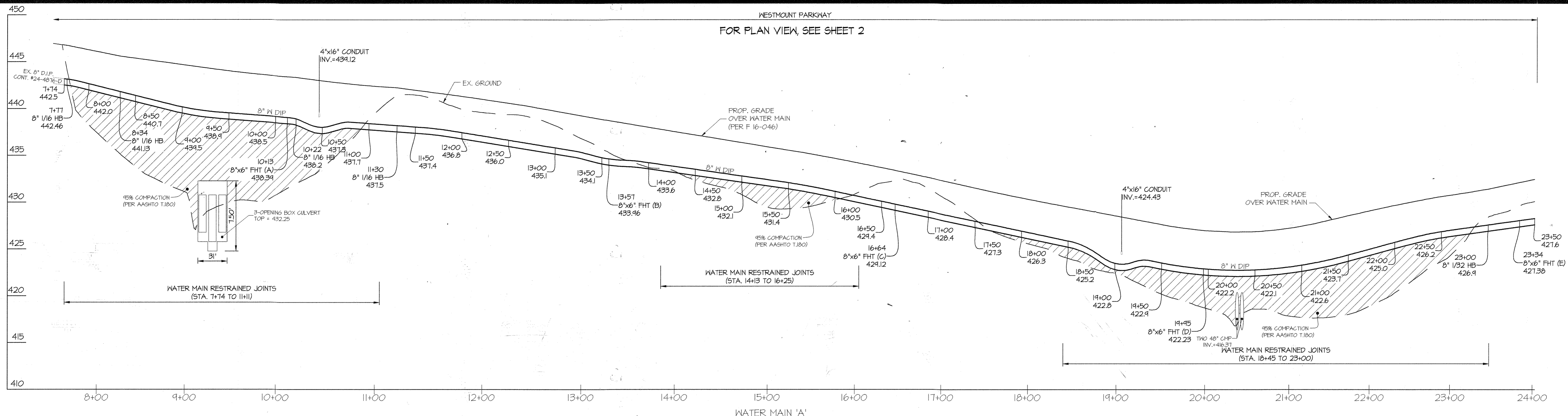


NO	REVISION	DATE

WATER and SEWER PLAN
600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

WESTMOUNT
CONTRACT No. 24-5097-D
PHASE 1A
LOTS 81 THRU 89, LOTS 125 THRU 137, LOTS 144 & 145
AND OPEN SPACE LOTS 156 THRU 158
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2

SCALE AS SHOWN
SHEET 3 OF 5



NOTE: THE LOCATION OF THE SEWER HOUSE CONNECTIONS INDICATE THE INVERT AT THE EDGE OF THE RIGHT-OF-WAY OR EASEMENT LINE.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
6-20-19
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
8-15-19
DATE

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DESIGNED BY: **DEV**
DRAWN BY: **JRC**
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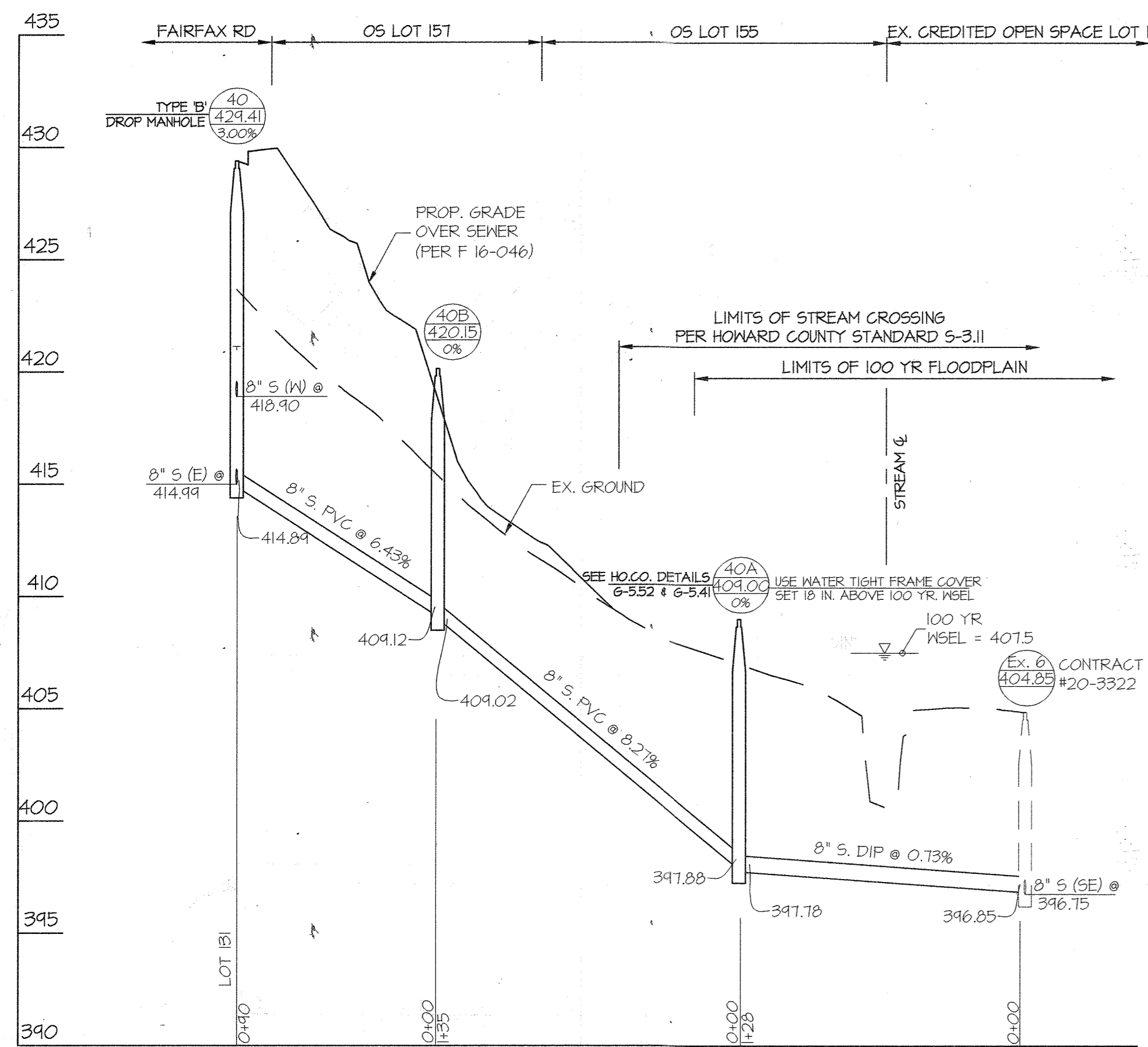
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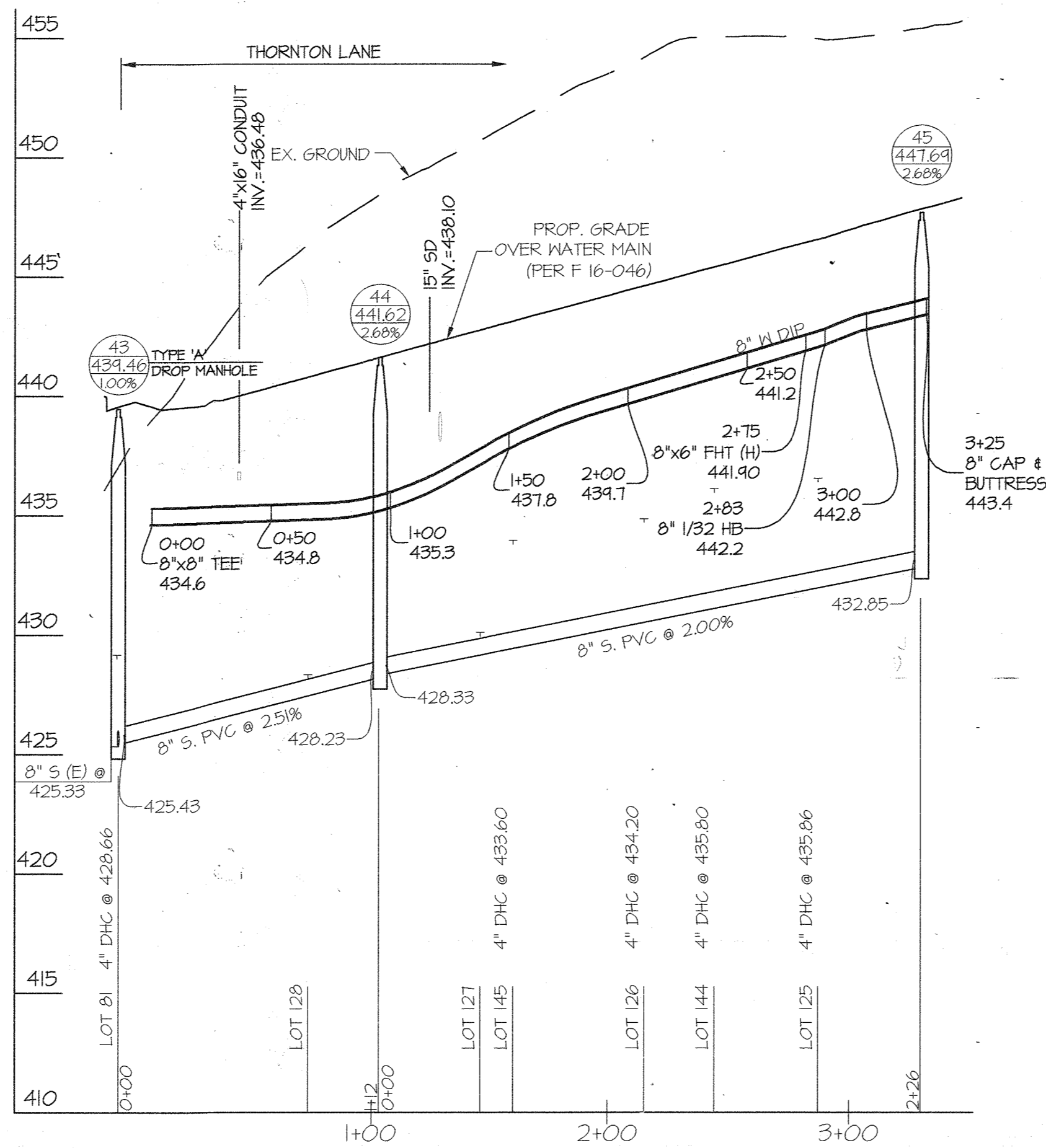
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WATER and SEWER PROFILES
600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

WESTMOUNT
CONTRACT No. 24-5097-D
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AND OPEN SPACE LOTS 156 THRU 158
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2
SCALE AS SHOWN
SHEET 4 OF 5



FOR PLAN VIEW, SEE SHEET 3



FOR PLAN VIEW, SEE SHEET 3

LOT #	ADDRESS	WATER HOUSE CONNECTION AS BUILT		SEWER HOUSE CONNECTION AS BUILT	
		LOCATION DIM. 1	LOCATION DIM. 2	LOCATION DIM. 1	LOCATION DIM. 2
81	FAIRFAX ROAD	35' from SMH 43	24' from SHC Lot 81	21' from SMH 43	24' from WHC Lot 81
82	FAIRFAX ROAD	62' from SMH 42	21' from SHC Lot 82	80' from SMH 43	21' from WHC Lot 82
83	FAIRFAX ROAD	20' from SMH 42	12' from SHC Lot 83	25' from SMH 41	12' from WHC Lot 83
84	FAIRFAX ROAD	43' from SMH 41	20' from SHC Lot 84	21' from SMH 41	20' from WHC Lot 84
85	FAIRFAX ROAD	69' from SMH 48	60' from SHC Lot 85	21' from SMH 48	60' from WHC Lot 85
86	FAIRFAX ROAD	104' from SMH 48	22' from SHC Lot 86	80' from SMH 48	22' from WHC Lot 86
87	FAIRFAX ROAD	73' from SMH 49	25' from SHC Lot 87	76' from SMH 49	25' from WHC Lot 87
88	FAIRFAX ROAD	24' from SMH 49	17' from SHC Lot 88	18' from SMH 49	17' from WHC Lot 88
89	FAIRFAX ROAD	35' from SMH 50	10' from SHC Lot 89	44' from SMH 50	10' from WHC Lot 89
125	THORNTON LANE	40' from SMH 45	20' from SHC Lot 125	52' from SMH 45	20' from WHC Lot 125
126	THORNTON LANE	117' from SMH 44	22' from SHC Lot 126	117' from SMH 44	22' from WHC Lot 126
127	THORNTON LANE	78' from SMH 44	22' from SHC Lot 127	54' from SMH 44	22' from WHC Lot 127
128	THORNTON LANE	77' from SMH 43	63' from SHC Lot 128	48' from SMH 43	63' from WHC Lot 128
129	FAIRFAX ROAD	42' from SMH 42	21' from SHC Lot 129	52' from SMH 42	21' from WHC Lot 129
130	FAIRFAX ROAD	47' from SMH 41	24' from SHC Lot 130	42' from SMH 41	24' from WHC Lot 130
131	FAIRFAX ROAD	87' from SMH 40	64' from SHC Lot 131	54' from SMH 40	64' from WHC Lot 131
132	FAIRFAX ROAD	46' from SMH 40	20' from SHC Lot 132	64' from SMH 40	20' from WHC Lot 132
133	FAIRFAX ROAD	56' from SMH 48	10' from SHC Lot 133	46' from SMH 48	10' from WHC Lot 133
134	FAIRFAX ROAD	118' from SMH 48	22' from SHC Lot 134	96' from SMH 48	22' from WHC Lot 134
135	FAIRFAX ROAD	110' from SMH 47	10' from SHC Lot 135	120' from SMH 47	10' from WHC Lot 135
136	FAIRFAX ROAD	42' from SMH 47	16' from SHC Lot 136	52' from SMH 47	16' from WHC Lot 136
137	FAIRFAX ROAD	64' from SMH 50	14' from SHC Lot 137	75' from SMH 50	14' from WHC Lot 137
144	THORNTON LANE	65' from SMH 45	20' from SHC Lot 144	80' from SMH 45	20' from WHC Lot 144
145	THORNTON LANE	88' from SMH 44	20' from SHC Lot 145	60' from SMH 44	20' from WHC Lot 145

MINIMUM CELLAR ELEVATIONS (M.C.E.)									
LOT	INV. @ MAIN/WH	DHC HT.	SHC SLOPE	SHC LENGTH (to R/W)	INV. @ R/W	M.C.E.	BF ELEV.*	FF ELEV.*	
81	425.66	3.0'	2%	11'	424.00	432.90	433.00	442.84	
82	424.42	3.0'	2%	22'	421.86	431.96	432.30	442.14	
83	423.12	3.0'	2%	21'	426.54	430.74	431.00	440.84	
84	421.24	---	2%	20'	421.64	425.94	429.00	430.84	
85	416.21	---	2%	17'	416.61	420.71	421.10	430.94	
86	416.85	---	2%	18'	417.21	421.31	421.70	431.54	
87	417.96	---	2%	18'	418.32	422.42	423.50	433.34	
88	414.03	---	2%	16'	414.35	423.05	424.30	434.14	
89	420.05	---	2%	14'	420.33	424.33	424.90	434.74	
125	432.66	3.2'	2%	35'	436.56	440.46	441.00	450.84	
126	431.20	3.0'	2%	33'	434.86	438.86	439.20	449.04	
127	424.32	---	2%	31'	424.94	433.94	437.34	447.18	
128	421.55	---	2%	30'	428.15	431.95	435.45	445.29	
129	423.32	6.1'	2%	30'	430.02	433.82	434.30	444.14	
130	421.94	3.0'	2%	24'	425.52	424.12	430.00	434.84	
131	415.22	5.0'	2%	31'	420.91	424.81	427.10	436.94	
132	416.08	3.4'	2%	26'	420.00	423.80	424.30	434.14	
133	416.43	---	2%	32'	417.07	420.97	423.10	432.94	
134	416.94	---	2%	32'	417.58	421.78	424.00	433.84	
135	417.75	---	2%	32'	418.34	422.24	424.80	434.64	
136	418.48	---	2%	32'	414.12	423.42	425.60	435.44	
137	420.15	3.1'	2%	36'	423.91	427.11	428.30	438.14	
144	431.80	4.0'	2%	16'	436.12	440.22	440.75	450.54	
145	430.10	3.5'	2%	18'	433.96	438.36	439.90	448.14	

NOTES:
 * BF ELEV. AND FF ELEV. ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. ENGINEER PREPARING THE SDP IS TO CONFIRM THE FINAL BF ELEV. PROPOSED ON THE SDP IS AT OR ABOVE THE M.C.E.

NOTE:
 THE LOCATION OF THE SEWER HOUSE CONNECTIONS INDICATE THE INVERT AT THE EDGE OF THE RIGHT-OF-WAY OR EASEMENT LINE.

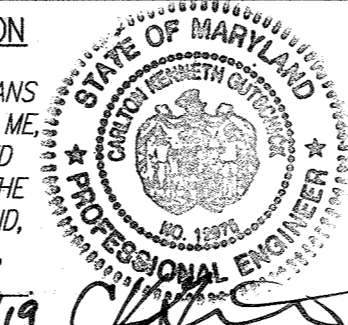
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE: 6-20-19

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 DATE: 6-19-19

GLW
 PLANNING | ENGINEERING | SURVEYING
 3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20886 | GLWPA.COM
 PHONE: 301-421-4024 | BALT: 410-880-1820 | DC/VA: 301-988-2524 | FAX: 301-421-4188

DESIGNED BY: DEV
 DATE: JUNE, 2019.
 DRAWN BY: JRC
 CHECKED BY: G.L.W. No.
 DATE: 13013

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 12975
 EXP. DATE: MAY 26, 2020



BY	NO	REVISION	DATE

COVER SHEET
 600' SCALE MAP NO. 23
 BLOCK NO. 6 & 12

WESTMOUNT
 CONTRACT No. 24-5097-D
 PHASE 1A
 LOTS 81 THRU 89, LOTS 125 THRU 137, LOTS 144 & 145
 AND OPEN SPACE LOTS 156 THRU 158
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 2
 SCALE AS SHOWN
 SHEET 5 OF 5